

## ABSTRACT OF THE DISCLOSURE

**METHODS FOR IDENTIFYING INHIBITORS OF GADD45  
POLYPEPTIDE ACTIVITY, AND INHIBITORS OF SUCH ACTIVITY**

The present invention is directed to novel methods for assaying for  
5 modulators of GADD45 polypeptide activity. The invention also provides means to  
sensitize a proliferating cell to a DNA base-damaging agent by administration of novel  
inhibitors of GADD45 polypeptide activity. The invention further provides polypeptides  
which interfere with the ability of Cdc2/cyclin B1 complexes to cause a pause at the  
G2/M stage of the cell cycle in response to GADD45, and nucleic acids which encode  
10 such polypeptides.